SIEMENS

## Data sheet 6ES7924-2AM20-0BC0




Figure similar

32K CONNECT. MOD. TP1 M-SIGN LED PUSH-IN

Connection module TP1 M signal 32 channels a. 4x2 terminals f. Potential supply
Type: Push-in terminal with LED, VPE = 1 unit 50 pole IDC connector f. cable

| | |
|---|---|
| Technical Product Detail Page | https://i.siemens.com/1P6ES7924-2AM20-0BC0 |
| target system | SIMATIC S7-1500 |
| suitability for use | Digital I/O modules |
| product brand name | SIMATIC Top connect |
| product type designation | Fully modular connection |
| product designation | Connection module |
| **electrical data** | |
| operating voltage | |
| ● at DC / rated value | 24 V |
| ● rated value | 24 V |
| ● at DC / maximum | 28.8 V |
| ampacity / per pin / maximum | 1 A |
| continuous current / at DC / per signal cable / maximum | 1 A |
| total current / maximum | 2 A |
| display version | |
| ● as status display of the inputs/outputs | LED yellow for "active high" |
| ● for power supply / power LED | Yes; green for 24 V DC O.K. |
| product function / infeed function | Yes |
| product component | |
| ● PE connection | No |
| ● shield connection | No |
| ● disconnector | No |
| product feature / cross-connectable | No |
| **connection method** | |
| number of terminals | 48; 32 x I/O; 8 x L+, 8 x M |
| number of channels | 32 |
| type of connecting terminal | push-in |
| position / of the terminal | Top |
| number of terminal levels | 1 |
| design of terminal / terminal levels internally linked | No |
| type of electrical connection / for connecting cable | Plug-in connection |
| number of poles / at the 1st interface | 50; IDC connector with installed strain relief for the connecting cable |
| number of the plug contacts / of the electrical connection | 1 |
| wire length / maximum | 30 m; between front connector module and Connection module |
| type of connectable conductor cross-sections / solid | No |
| connectable conductor cross-section | |
| ● for flexible conductor / with core end processing | 0.2 ... 2.5 mm²; End sleeve according to DIN 46228/1 or DIN 46228/4 with plastic collar |


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| | |
|---|---|
| ● stranded | 0.2 ... 2.5 mm² |
| ● finely stranded / without core end processing | 0.2 ... 2.5 mm² |
| ● finely stranded / with core end processing | 0.2 ... 2.5 mm² |
| number of cables / per connection | 2; Connection for internal system: Combination of 1 or 2 Wires until the sum total of cross sections be achieved in a ferrule. |
| width of screwdriver blade | 3.5 mm |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● cULus approval | Yes |
| ● IECEx | Yes |
| ● ATEX | Yes |
| ● ULhazloc approval | Yes |
| ● UKEX | Yes |
| ● CCC / for hazardous zone according to GB standard | Yes |
| design tested acc. to type of protection / EEx e | Yes |
| overvoltage category | 2 |
| degree of pollution | 2 |
| combustibility class according to UL 94 | V1 |
| **standards, specifications, approvals / Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| ● total | 141.3 kg |
| ● during manufacturing | 1.7 kg |
| ● during operation | 139.5 kg |
| ● after end of life | 0.16 kg |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -30 ... +60 °C |
| ● during storage | -40 ... +70 |
| **mechanical data** | |
| width × height × depth | 100 mm × 76 mm × 60 mm |
| mounting type | DIN rail 35 mm, DIN rail 15 mm |
| mounting position | any |
| height / with lowest-profile installation | 60 mm |
| net weight | 0.21 kg |
| insulation material | other |
| color | |
| ● of the enclosure | grey |
| ● of the light source | without |
| product component / required / end cover plate | No |
| **further information / internet links** | |
| internet link | |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to web page: system cabling | https://siemens.com/simatic-top-connect |
| ● to website: CAx-Download-Manager | https://siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **additional information** | |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| marketing text | The connection module TP1 M signal for a 1-wire connection with 32 channels and potential connection with push-in terminals with LED for signaling forms the interface between the connection lines of the I/O brought in from the field and the SIMATIC S7. This is mounted on the DIN rail and, thanks to its functionality with push-in terminals, it is precisely adapted to the task at hand. This connection module is part of the fully modular SIMATIC TOP connect for the fastest and safest system cabling. In addition to a low wiring effort, sources of error during cabling can be significantly reduced. Sensors and actuators from the I/O are connected to the SIMATIC TOP connect terminal modules and are connected with the SIMATIC S7-1500 via the connecting cable and front connector module. |
| **Classifications** | |


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| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-25-01-12 |
| eClass | 14 | 27-25-01-12 |
| eClass | 12 | 27-14-11-28 |
| eClass | 9.1 | 27-14-11-28 |
| eClass | 9 | 27-14-11-28 |
| eClass | 8 | 27-14-11-28 |
| eClass | 7.1 | 27-14-11-28 |
| eClass | 6 | 27-14-11-28 |
| ETIM | 10 | EC000900 |
| ETIM | 9 | EC000900 |
| ETIM | 8 | EC000900 |
| ETIM | 7 | EC000900 |
| UNSPSC | 15 | 39-12-14-10 |

## Approvals / Certificates

### General Product Approval

Manufacturer Declaration

China RoHS

UL

### For use in hazardous locations

Manufacturer Declaration

Miscellaneous

IECEx

### For use in hazardous locations

ATEX

CCC-Ex

UL

### Environment

EPD

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